Preparing for R workshop

Please follow these steps to install and test R and RStudio. If you run into trouble, please use Internet resources before you ask me for help, as I am not particularly competent with computers and probably will be unhelpful unless you are making a big mistake (in which case the Internet would know anyway). All the same, if you are having trouble and have exhausted the Internet, then feel free to send me an email and I'll do my best.

1. Download and install the most recent version of R for your operating system from https://www.r-project.org/. It may ask you to install or upgrade other software (such as Quartz) in order for R to install and run properly.

2. Open up the R interface and type in a simple command to check that it works. For example, if you type '2+2', R should produce the output '4'. Then quit R.

3. Download and install RStudio from https://www.rstudio.com/products/rstudio/download/. (The free version is just fine.) This is a better interface for editing R scripts in R.

4. Open RStudio. The "console" window in RStudio is the same interface you used when you tested R in Step 2. Again, test that RStudio is working by typing in a simple command (such as '2+2').

5. Go to the course website and download the data file for Week 5 ("Session5_data.xlsx"). Open up the file in Excel, and use "Save As" to save the file as a .csv file. Save this file to your desktop (NOT your downloads folder or anywhere else) using the filename "Session5_data.csv."

6. In RStudio, run the following two lines of code, by typing each line and then hitting enter. (If it doesn't work, try deleting and typing the quotation marks in R, as they sometimes do not copy and paste correctly.)

```
setwd("~/Desktop/")
dat <- read.csv("Session5_data.csv")
```

7. If those two lines of code run without any errors, you should be able to run all the analyses we will be covering in Session 5. Test out that you can access the data by running the following command:

```
head(dat)
```

It should produce output like the following (it's the first few lines of the dataset).

```
> head(dat)
   ID TooFast SciNec AstrPers SciBenefit SciUnders CollegeSci TradeJobs FamIncome IndIncome
1 994      -2      2        0          3         1          1         0      0.00      0.00
2 360       1      2        0         -3         1          1        NA  45677.50      0.00
3  31      -1      1        1          2         0          0        NA  68516.25      0.00
4 512       0      0        1          0        -1          0        NA      0.00      0.00
5 857       1      1        1          1        -1          0        NA   5398.25   5398.25
6 709      NA     NA        0         NA        NA          0        NA   7474.50    415.25
  SciOpport Employed Sex ChildhoodIncome NonUSBorn NonUSBornGP CitySize Politics Happiness
1         2        2   0               0         0           2      331       -3        NA
2        -1        2   0               0         0           4       59       -2        NA
3         1       NA   1              -1         0           4     8008       -2        NA
4         0        1   1               1         0           1       37        0        NA
5         1       NA   1               0         0           0       14        0        NA
6        -1        0   0               1         0          NA      563       NA        NA
```

If so, you are all set to run analyses using R!